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Art Unit: 1656 Attorney Docket No.: 052777

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): An isolated protein complex comprising:

a polyhedral protein having an insect virus encapsulated therein; and

a target protein having fused to a restricted region of a capsid protein VP3 of strain H of

Bombyx mori cytoplasmic polyhedrosis virus as an embedding signal for polyhedron,

wherein the restricted region of capsid protein VP3 of strain H of Bombyx mori

cytoplasmic polyhedrosis is a region from the 41st amino acid residue to the 79th amino acid

residue.

2. (Cancelled).

3. (Previously Presented): The isolated protein complex according to Claim 1, wherein the

polyhedral protein has an effect on improvement in the stability of the target protein, protection

thereof or improvement in the preservation property thereof, or a combination of any of these.

4. (Previously Presented): The isolated protein complex according to Claim 1, wherein the target

protein is at least one member selected from the group consisting of fluorescent or light-emitting

proteins, enzymes, antigens, antibodies, cytokines, receptors and bioactive proteins.

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5. (Withdrawn/Currently Amended): A process for producing an isolated protein complex,

comprising the steps of:

infecting a cell with a restricted region of a capsid protein VP3 of strain H of Bombyx

mori cytoplasmic polyhedrosis virus that has been integrated with fused to a gene encoding a

target protein together with a insect virus that has been integrated with a gene encoding a

polyhedral protein, and

culturing the cell is cultured, whereby a protein complex having a complex structure

composed of the target protein and the polyhedral protein is produced in the cell,

wherein the restricted region of the capsid protein VP3 of strain H of Bombyx mori

cytoplasmic polyhedrosis is either a region from the N-terminus to the 40th amino acid residue or

a region from the 41st amino acid residue to the 79th amino acid residue.

6. (Currently Amended): A biosensor comprising:

an isolated protein complex comprising:

a polyhedral protein having an insect virus encapsulated therein; and

a target protein having fused to a restricted region of a capsid protein VP3 of

strain H of Bombyx mori cytoplasmic polyhedrosis virus as an embedding signal for polyhedron,

wherein said isolated protein complex is arranged in dots or lines on a substrate and

immobilized thereon.

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7. (Previously Presented): A biosensor according to claim 6, wherein said isolated protein

complex is packed in such a manner that said isolated protein complex is to be contacted with a

substance in a test solution in a recess formed on a substrate.

8. (Previously Presented: A biosensor according to claim 6, wherein said isolated protein

complex is packed in a container in such a manner that said isolated protein complex is to be

contacted with a substance in a test solution.

9. (Currently Amended): [[,]] An isolated protein complex comprising:

a polyhedral protein having an insect virus encapsulated therein; and

a target protein having fused to a restricted region of a capsid protein VP3 of strain H of

Bombyx mori cytoplasmic polyhedrosis virus as an embedding signal for polyhedron, wherein

the target protein is an enzyme.

10. (New) The isolated protein complex according to claim 1, wherein said target protein is

directly fused to said restricted region of said capsid protein VP3 of strain H of Bombyx mori

cytoplasmic polyhedrosis virus.

11. (New) The process for producing the isolated protein complex according to claim 5, wherein

said target protein is directly fused to said restricted region of said capsid protein VP3 of strain H

of Bombyx mori cytoplasmic polyhedrosis virus.

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12. (New) The biosensor according to claim 6, wherein said target protein is directly fused to

said restricted region of said capsid protein VP3 of strain H of Bombyx mori cytoplasmic

polyhedrosis virus.

13. (New) The isolated protein complex according to claim 9, wherein said target protein is

directly fused to said restricted region of said capsid protein VP3 of strain H of Bombyx mori

cytoplasmic polyhedrosis virus.

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